



# Air Force Research Laboratory|AFRL

*Science and Technology for Tomorrow's Air and Space Force*

## **Success Story**

### **DR. MICHAEL MURPHY RECEIVES THE AIR FORCE SCIENCE AND ENGINEERING AWARD**



The Science and Engineering Award recognizes “working level” Air Force personnel for their outstanding contributions in research, development, or engineering.



Air Force Research Laboratory  
Wright-Patterson AFB OH

### **Accomplishment**

The United States (US) Air Force presented Dr. Michael R. Murphy, Chief of the Human Effects Directorate's Radio Frequency Radiation Bioeffects Branch, the US Air Force 2002 Science and Engineering Annual Award for Achievement in Areas of Exploratory or Advanced Technology Development. Dr. Murphy directed efforts to document human effects data in support of non-lethal weapons (NLWs) and is the Chair of the North Atlantic Treaty Organization's Technology Group on the Human Effects of Non-Lethal Technologies.

Dr. Murphy provided Air Force capabilities and expertise in support of the Department of Defense (DoD) Executive Agent for NLWs through the Joint Non-lethal Weapons Directorate (JNLWD). Dr. Murphy led research and risk communication efforts in support of the human effects of a unique microwave-based, anti-personnel, non-lethal weapon called the Active Denial System (ADS).

Dr. Murphy simultaneously enhanced the international service and scientific reputation of the group conducting the ADS research. Due to his technical expertise and support of expanded human effects research of non-lethal weapons, his group earned the designation and funding as the Joint Non-Lethal Human Effects Center of Excellence in the DoD.

### **Background**

Dr. Murphy oversaw field studies of ADS effectiveness and development with emphasis on the human effects. Using the results of those studies, he initiated a campaign to overcome the potential suspicion, fear, and misunderstanding of DoD's first anti-personnel radio frequency NLW.

Dr. Murphy developed and executed a plan to communicate human effects research internationally to support scientific and military acceptability for the program. This plan included presentations on ADS at foreign and domestic venues.

### **Additional information**

To receive more information about this or other activities in the Air Force Research Laboratory, contact TECH CONNECT, AFRL/XPTC, (800) 203-6451 and you will be directed to the appropriate laboratory expert. (03-HE-26)